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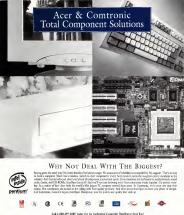


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MIL a Morecul fam that has achieved raind proveh attenuagenally with its sales agreeation software for mobile computer users, has amounced the release of UniverSelf. as next actorston of saleshner technology. "Universell was developed in response to three major preds affectes countration today," according to MEI consider Arthroy Gentless, "Corporate

global and sales representatives heed to be more effective wherever they are, and management ty opposity varietyment data between grobile users and PC, server or requireme based distilluses.

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Taking a bite out of Apple

Restructuring of the Mac maker leaves some technology by the wayside.

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pure has lost a few builts, but is still a love. pulled back from a roads made into new marment, education, publishing and new media. It was a move that not only resulted in a complete nutruraries of Auple's comprise wayade. "We've some to a more functional

Joses provided (MRS) less married of Apple low-cost. Msc 43c festures" perfect, but Amobe yays be common a top en-

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Moss focus will instead be placed on "the operating system, code-maned Shapsods. Joses vans. "When we arrestated our strategy which is becoming the industry standard."

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by Gary Davier

The discontinuation of several Misc Citig Bowman, owner of the Mac Classroom

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"There's been a lot of problems with the \$300 sees a real numbers on " Chibidhama It's high time Apole resliced it This will be the Board of could obey "Apple has observabled the vision of cartifus a resul-

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In 1995 is Cocale master, PC march at • MEC 42% market (13,000 sees) fill. loved by IBM with 16-6 per cent, 11-2 per cent of the total declare. corket (1.47 million costs) - accord to IBM which owns 14.2 per rest emb) - (offerent Todale with 25.9 per cent and IRM with 17.6 per

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Digital Is Back On Track With PC Business

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for the MADps standards rose: That group planned so hold its fast meeting on April 23 in New Made.

The Telecommunications Industry Accountment, the organization that will see the standards, has a transitable of Jose for a decision has more welfulner Germanus and

standards, los a tractable of Jone for a decision, but more, recluding Germanow expect it will be sometime next your before a 508Dps standard emerges. St d

share. "Most people are jumping on the X2 — who aprointers in high technology of

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The average printer. whether a \$300 desktop ink-let model. or a \$10,000 network laser, is increasingly a user-friendly appliance that

has amazingly

sophisticated

buried inside it

desktop publishing company, in 1985 and 1986 One was a now

letters built up from a small number of does, with about 70 dot per inch (dot) revolution 84 des sesolation. We added a \$60,000 to 2,000 day. Shortly other that we wided an

four early protein are available to the evenue "these couldn't releast revolute of both true and smapes for superior to snything on the flood of locally generated documents, and

of the Cumdent proper market, and value of and ink-jet preser sales in Canada will concontact tent soles in Canada will peop from 475,000 to 1995 to 1,036,000 to 1997. At the

ben to \$266 million In-

and arough in tak-jet sales will come partly exposes of loser peaser sales, which are

The Razor Blade Industry

regarded as 'seed' products - the many as-

for memfactaces and residers are maistail. sales of toner or sak, super, and other addcentury ago in the sharing industry soften rappy holders were sold for next to nothing. packs of deposible raper blades that were To an excession demon, the present con-

Dr. 1996, dollar sales of sak-yet printer supphra exceeded dollar sales of phract hardways for the first trees. By 1999, werely sales. year The reall associative for mothers of Technology Drives The Race

based made it. Prasers do something that physical product rather than samply move electronic data around. Printers take in major case of color printing, the process avolves exemplation of marties and enemy at a moleprocesses that were samply unavailable to

players in the preser market Hewlett treature hithory of dollars each year in med evolution of the products we see on

Generic Versus

Brandname Supplies Iwage Coursi Corp., a Sonborough, have seen than 5,000 different cond-Jerusy salls a do-n-yourself refilling

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Winners And Losers less that we writte The month bear been

rader he salisted from accountly ex-OMS a niceroway Pro-Servet Inverprinter maker which has a well-persed resoprogen, a college article article. The bromes solutions), and it had to revenip its.

When courts as a nowin struction, surkee, other contributions have responded as CMS did. by curver to pathe matters or to when margins are still higher, and profestond colonia in lodge for scittle tide six clums on notes within the novem-

Pickini, Even, Circo and street of ees tenders in late 1996 and santar in terms of read marketihers. In the have to fight over a state or deckning per

Apple basile Mac

leading player to the hoer regal-The LaserWriter offered grest case of ste.

connectivity and PostScript oversatibites, but represerve The Color StyleWriter 2200 in a The Color Lise/Writer 12000 PS pt g continuously leader-edec polor leave, with ofno-ond-play notworking support and Colorbase color empthing technology, and the LaurWriger 12/640 is a fact, orosi eletmagnit with LaserWriter sales into the MS



Brother

This Manufold based branch of the Japanese reacy. though like all laser rankers. from connectation with low-cost sale-jets. The common has a wide enough product lige, that

Caster Corocle in perhaps the saverable stant. to the amount of attenues Hewlet-Packard. Conon is a smaller presence in the market. The revenue is tree. Capon, an addition to yarcomes and laser printers, is the number one vendor of ink atts to Canada, according to the of Canon's present are also non-seay (but rall metal) block and where models decer excellent above quality output.

to concentrate on those other penting techtors loss ahead to anador share. The compadry, new photo-quality output, took the printor makes by surpose. The onestel Color

then, however, Epson has cutwer. With the release of my receives its analysishmy purisfy in the regul cost with the release of three new Styles Color modely, the businessneed 400: resistance 600, and resistanceal level 800. which enables up to 1,440 day premay. The of a bocasse for resulters of Egyan presensarehrs According to market analysts.

firece is continuing to expend to market

high-ord, speculood do-marks and laser for derempting office environment. The

Canadian printer suppliers, in tores of both

Hewlett-Packard

printer line of MF is only one component of it more than US\$35 billion nor year. HP is a ers, personal basic protects, multifencione parts. HP has seen someon corners one from

by surveyed RIP as the covenience to best 1997, with online, for HP Launding coverage

Lawries, and sales growth in inhigh are solvedeed without amouncement sensites Nesertheless, for the procsupplies consumer there is a consider

for cooley of companies the HP or about 52 below in Canada by 1999

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Notice concerns May 1997 CANADIAN COMPLITER WHOLESALER 28

1150c, a celor parter-center-scarner which combined two of HP's leading technologies. oboto quality printer, sensed at the SOHO

Lexmark sous off to a reporter company several years are down 18M's time of broables, and it has manufacturer outside of the embrace of Bus. laser presery, Mark Vivion printer networking software, and Color Jetnester removal inkto the SOHO market Although Optin Laters

new Jetanister models, the 2030, 2050 and

products, offer photoreshops print cambridge software to provide a complete printing soft-

Okidata

meny were a miditional opport maker, which Morotre 390091 Tiste/L is well in inkcharacterises similar to lasers, although they mount printing for a \$1,500 event price

This compare was quick to capital the

living initially on the Mac and later on the LaverWrace kee, by offering comparable per-

laser praces to \$600 or less, QMS re-oracited its efforts to concentrate on the corporate Windows, a variety of connectivity solutions Image Server Print Systems and Developers

the QMS 4060 menut) work-

sensore QMS and 450 Day

gratery. The ColorSerus gramen use a fast

OMS makes a distinction between 'net-

reasons of security, it is avaidly preferable to locate a printer close to the user's computer and DMS support, law-root, distributed work meadlebons. Trencally, OMS communnord every with an emphasis on a thorough

Serviceworks/Raven

Telavorite in a strong player in high-quality.

600 is a wide-forms color prices, that can 30 CANADIAN COMPUTER WHOLESALER May 1897 Innauron process

Unlike many other creater rankers which are

the-et R&D facility

Ramory from well-

have your more money concerning policy layer products in the and month, aspect as breasure that sectable-

estical character recognition (OCR) seftleader in multifunction devices, with its

HP parrently his an appendible deminance in

pared to 11 per over for Boother (movels lowin lines, but it will be in a shankor maker. Canon's custom market share of 38 per comwill shreek as the market excepts and Learner regard they sales. However, the growth in the orroter marker's upon ratio, will competitive new products. The convince, however, is what credits will there be us this

where the real opportunity exists to excee-

Jelf Error is Associate Editor of Consider

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Fun And Games? And Profits

The camputer saftware entertainment business is turning aut to be a source of significant revenues far same resellers. But as always, the key is understanding your customer.

by Paul Wemberg

Knew your customer. It's always the first role of barrierus, but the advice or expectably what is in the fine-spaced world of computer piece stealing.

Outcomers are becoming more determinationing in their purchases of ranges authorize, which proorfine to because the claims, product results.

of grames authorize, which incomfing to Jermay Logina, product reasinger for the Torretto-based distributor Bernscope Canada loc, his fell readors as relations about a quasiture of the utder they used an annadato. He constitute that the Chandana games onfriende market in 1996 computes about set per cent of the U.S. matter, which howeved at about

And garner retailers definitely need to have their surfect. "Secondly five per cent of the sales are in the first week. Their are few garnessal beautiful." You can be give their and in it but of a coupletie because you could be using second with 60 of them on the shelf," says Bes Bestiston, public schulins mornager for the Toronto-based Inguin Missa Ins (Consult).

Consider Mediascape

The appearance of Mediumage, a games software store, anadist the insidenoid groups on Yonge Storet in devolution Tecnolo may be a sign with the lattle stop is finally soung better days.

Owners Blamm Keyns and Jon Wishib two yearing man who also fit the demographic of much of their elements, say that their location houge them to before all one of their elements, and the store of the column makes of the programmer of the programmer of the processing the store of the store of the store of the store of the medium of the store of the st

and the University of Torseto, as well as the community colleges
from Walsh and Keyes (who are, unclaimably, courses) have extend
university degrees
So far short of firsts are paying off. Meditricage is already centing
a small profit after a year under half as operation.
Their only areas for according to there is no FuturalStore

areas in the correspond that competing with them, anyth one canning the partiality competing with them, anyth one canning that Keyes and Widely the suggest they have connected with the gasing clientine in a sature that would be suppossible for a larger retail enterprise. Both the tradet greates themselver — each upon \$50 tooms on Didde a not polytop designee and draging pages from CICODerishon.

see temes on a finitivante basis la addition à solding genera tible, seventi de PCI have been contineed in the lack of the states where pools for a fine the east other yles since or compete na extended environment.

Genera come l'insu al mid-side of the Keyes sold width report, assess from the tax collets who cames by Middacuspe coursy work for tructure and software for the side of the tructure and software for committee of the committee of the

 distributor
 When about the violence and susplace depicted in some gan Keyes shraps and says? "It is pure entertainment, no different.

The control of the co

Preduct Description	CommCode	Veedor				
MARKER OF DEVOK IS ANDARE.	coops	Sawdrow Hotelyte				
SCREAMER II						
AR MARCH I						
DMBLD SWEWNE						

At the start a factly solitary activity games software in becoming and over again is not as excesses," sees. Kerses

world, "State by yound for a room killing computer anomal over includes: reveally opening new audies in the greater Toronto area or

"You can buy 50 titles and it is bit of a crapshoot because you could be sitting around with 49 of them on the shelf." - Rev Backton

Keyes who has a masters degree in physics, jokes about how he On the market on several, he commented "Richalton do income.

The Market

Loran made reference to one large retailer in Carolis that haved in less. "It wasn't properly recreasing the product No undoes Neverteless, adds Logan, a small independent operation like Mediacracy has a major advantage over the large choice when the

a shelf, ope to two days finite than a choir which has to take color time.

Gaming Today

Know much contain surses substant when he was I'l and more sitch clients envolved "two or draw gays." Now sums development is no enormously expensive and error. Walken and Brace William

Adds Walsh "You gotly have to know the products well ahead of

Guerne is a subculture. World reports, where passers May to come rep a vore and personally check out hot tries with a lancwindpublic wall. nors mate loss at in the PC regulers, were conspitute Bub Preshold. "Garage software comies attributes of both a computer and a consumer electronics reading, aids Propherd, which he was causes a ket of

Video games wendow tassi they counters a lochester than what the commotive enforces exercises, sect, accompliances Projulged. Greater control is "where medican are eventionalisted and compension is solely on

Computer names start out being sold at streewhere between \$55 less on outlook Keyes. There is the additional part comes market Whether games well ware has believed create the demand for Pentium

Just Machaux, older of the on-line requires, Governors (power@rivert comp suggests a user seeds at least a Pentium 90 to bee-



Nav 1997 CANADIAN COMPUTER WHOLESALER 33

New Wave of Client/Server Hits Market

by Post Long

Although the resultion to electricates but not always more proorfsperson. From senal companies with force than a discon conference,

Corporate one of previous is abverdative, according to a

Control Networks free servey of 32 Agreems communes. While the 1996, that comber is expected to make their double the near

pric-Reduced Client-Server Computing

If half the large surrounding acreors, compount (NCs) and share are ideally socied for vertical analysis and as to account any Sun Marrayotema, Oracle, Creek and Hill hear all

have appropried that about on bolics \$5%. From some and one they will bridge both NCs and habs PCs (they cheet) in purious

amona employees and collaborate on accepta

Nine McGraebey, worldwide market manners, Varidage, IBM modelms, such almost a discussed for presentational houndaries." social departmental, company and accomplish boundaries. "Experie

With recreased congressives, egitemen are becoming data ontoquetomers who can log on to the PodEx tracking system and look up

pagetion are, in a sense, past of your virtual emporation."

And the reality is it up't recessarily so," says Sheils Redust, sephandling our housess?," compositions have had a tendency to take an trea year and help. According a review released by the Spanish Commi-

While American companions, and concernments may 1955265 Inflore on information technology (IT) groups but your the Standard Clever arrest extinated USSI-93 billion was lost due to project cancel-The cost of these failures and overness are include the six of the

pleted on time and on-budget. In the larger companies, the news in worse, only time ner cost of sources come in on time and on hydres. "We can no longer contain the three markers hear no tail.

Resellers To The Rescue That have two questions: How can resulter, best serve their electric to can companies covery they are peting value from scanfers

When contemplating a move to classifieries and beyond, a key promotion IT are causing distage menuscripal process "from prob-

*People down the half new technology, planning will have a closer affinity to neonle across the continent that what they have with people next to them."

Commune should systems so they can make

- Skin McGouthry Client/Server Will Survive

and " He are introvers or and different from distributor but are

breather are the natural evolution of chestlowers, the review

architecture will prevent. As severable as the more to a world of transacrest alotal con-

companies that loss below they plue. The transition for connectaons time and vertex budgets. IDE

Anal Lour Industry Agency complete a Toponton housed for former anaemologic

Richard Manufactor, provided of Trends-Annell nik thermelyes. "How little companion power can we not away." with " He was it may take a year or so to determine how well than effects will do. "There will be some mated experimentation

It's not an issue for Phil Del.coo, proading of Richmond Hits.

versical workers such as roted, healthcore and healting - markets



The Recordable CD Yields Opportunity

to God Wheelsools

a couple of som now - and have changed

cased to use and a better opion for a wider

have a CD-ROM drive to this michine -This makes it a much better medium for

a perfect velocic for resellen and dealers to Here are rate a few examples of how

Backing Up The Company

- whether stand along or on a network - they

doing it Tapo drives have commonly been chaper than their optical conservativ and

In cases where you didn't want others in ion but in rany small- to notice-sized

mally age PC with a CD-ROM it recens that

nettees use of their backed-up data even of restored without the crist of regional of

offer a parallel port source - such as HP's virtually my system, reclading netchook cornectes. The fact that the CD recenter

The whole these can be done in a few

The Enthusiast

For The Sales Force

tomers for CD accorders if a community has the me in codonic pre-existion - either on their

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sowbeau che due con muke effective use el

could even take their homes for sale (perhaps including detailed

Some of these functions could be repli-

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These two distributes were filled with 400 from here convers NAMA crane two very delicent

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Product Strengths

more Wicklead (PRML) technologies The end small is grouped simulto principity, Inc. chance of day loss than with

Editors' Nates

Two of France's Land constants are those any dense, with capit, this of 3.5GB (MPA,NESAT) and 5.2GB (MPA,NEZAT). Both performance and are competitively preced Both drives tenture low says of 128KB and the new ATA-3 interface. As far in raw per-

Festern Digital AC340006

Western Dietal's AC34000L leaves listle to be desired when it

formance goes, the larger NASZAT managed to school vote very ingrovery route, rusting it a contribut for an Editory' Chesse reced. Both down have an MTRF renne of 500,000 hours and come with three-year warranties

4GB, a sein rate of \$ 200 RPM and an access time of 11 ms. It who has a larger-thon-average 256KB buffer to help squeeze out every

The street corners with excellent documentation in the form of an

MANAGET River ARRESTS NEEDER

Supposted Retail Prope: ST36450A -- 5580 Street Avec ST333934 -- \$477

Marketing Support for Resellers' Scarred & Web many offers place wave for resellers to observable ton for a finding of conherized distribution and sales offices," save

New Docs Sungets Fastion This Froduct in The Merket? Medalast 3240 is damped for both value-class designs PCs and

energies it too is suitable for the \$0000 market, " and Planeser "The Medalist Pre 6450 offers performance and schillitty The Mediate 1240 is contained for homelaffice environments. Both dis-

Estars' Nove Sensale give as two of their latest crements, the ST33240A and the ST36450A, with capacities of 120B and 0.40B, respectively. The 33240A is a 3.36B drive, makes it ideal for

scores looken for a firm and with a name they know well and can intel This 128KB and a year rate formance on this deve



The 8T36450A is, in more wors the ideal drive it began a when it comes to raw performance. The drive oblicego large to de sate of 5,000 RPM, as access time of 11 ms, and the benefit

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Maintenance And Technical Relationship With De

The product adopts the on-site warranty of the HM system to at

restribed in Toll-free technical vapont for resulters Deals and authorical BBS.

Valume Discounts: You specture Fireball YM 3.8GB and Ossesture Bigloot CY 6.4GB

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Quetan his two new drives available, each saled for different TMW60A and the BigSox CY6480A. The Firshall 3840A is a SBCB days, making it astroctive to survoic who's lookupe for 4,500 RPM and a 10.5 ms arongs seek time. The BigGost 6450A on the other hand, has a posensial formatted carriery of 6.5GR, a

Mooter \$3500A and \$5126A

List Price: \$44) and \$601 - respectively. Metheory Sound

Marketang support for resollers includes the Muster VAR Puzzer Technical Relationship With Receivers

Semo Und Aradiability

The company stary of th 3 5GB and 5 1GB products. "Now, the

42 CANADIAN COMPLITER WHOLESALER May 1987 Hours

Done Unit Annihobility And Restrictions:

What is 1880's View IV The Market?

TBM has been manufacturing storage devices for over 50 years,

teen and servers drive The Deskstor family of hard disk drives allow excellent price-performance for IBM and IBM competible

What Are IBN's Preducts' Strengths?

Metabolicy Marget projective head technology allows IBM to bald drives with increased soil density, therefore fewer peris. poulson as hieter MTRV rates. Performance - We offer a high consequent data mate. High resources IRM hand denote deliver up to

in silicon rather than stopper form on the band drive," sens IBM

IBM's pew DAQA-33340 as a 3.208 capacity drive that would easily a result addition to any country. The drive is capable of surturning high transfer rotes and had an empressively about eventor

enough morage space for both

today and tomorray Both day worth noting this

the delega is designed using a whereas the 2000A ones the This drive is ideal for propose looking any buying something with

What Are The Products' Strengths?

Editors' Notes:

The two models we received for this month's evaluation were the \$3500A and the \$3120A; with conscript of 3.5GB and

formance and is well-praced for a drive of its use. The larger the drives more appealing qualities are its larger 156KB anhand rarbs and the use of the ATA-3 interface

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Per III, "AspatChaper Bundware" creens oper devices, when, commencedors and referencing, and wanth burdware. Part IX: "New Eavoge Systems," theroughly describes drive apertices, disk drives, upo devices and other wange systems. If ned-sources was to held their own system. — Part X: "System Astronby, and Mouvement," illustrates all the consent source. Contained in Part IX: "Enabledware and Dismonses," in a dismon-

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Newer And Faster RAM Designs

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of very first RAM is built right into the CPU

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To make was of the superflow meaning sharps, methodened congruens will med to herein the rostem RAMbus Ohmed — the special olley sof the Slabow the CPU to insernet with the RAM CPU pass had be thrown its support behind RAMbus. The two companies have amonated plant in companies to dough the real generation being called ABRAM They to heaving to medi speech as

aDRAM They're beging so much speech as a 16 GBNew 1998, just in some for heart's 64-bit JP Microsof processor. Used 18th Becomes coding, there are other shifts in how RAM is being soil. This 350 and many 14th generation computer up-insity used so called 30 per 31M/s. There were eightheir places (microsoftly, bits the functions (RDRAM)) and had to be added 19 man for 16-bit 1866X hoses, and is not sof

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But ther's not the only Mac dost showing up on PCs in the norr future.

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a Unified Meaniny Architecture (UMA — a simpler design in which the animal system RAM is shared to count in weeded.)

When RAM was expensive, they make some Vin might have Wild of RAM on your video cand, but only be using 1MM or is, depending on fire number of orders and sozion excelution — the next of the video RAM would be going to water. Implementing

RAM would be going to waste. Implementing UMA could, in a result, fower system protes UMA, however, has been a ussed benefix. Performance of UMA systems has tended

are 10 be lower than systems with dedicated strengthin RAM, this is especially turn when ranting at high video modulate and color stight, wheth requires a large amount of strength and the color of the CPU access to a guideline amount of RAM. As the well, consistly decoding low 30 store for contract and an areal color and color participation.

per cysters RAM annual is just one more task to be doing onto the CPU.

See the cysters have to be designed to support DMA. This support is not controlled by writing into other Windows 55 or NF, but you is no operated to show up or father percentifies. That's because the performance has associated with UMA will become less of an issue in the father with more proved CPUs associated.

with UMA will become less of an irear in the father with more powerful CPUs accessing large pools of system RAM. As a studiexpect to see this becoming a standard feature on love-to and mage systems over the next

For now, make sare your systems support DBMSs, there wall be needed in support the large amount of RAM saces will be requiring. IEOO RAM in on the very out SDRAM will be the standard by like 1997, through 1988. After that, look for the results of the initial-RAMbus cooperation to take in

become common on entry level systems as a system or so to Now of only I could get that RAM to actually reals my denser. Note month mixing PCs simpler the NotPC and the Zero-

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specifies a PCI haved PC degree with a minimum 200MHz. CPU, 32MB RAM, 2MB hard drive and the other transfers-CAMADIAN COMPLIFE WHIDLESSLEE May 1987, NO Assess

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proposable for NT uniflware solutions, and IBM's purpose in not openined. NT, but rather to meet the needs of cultivates with with to use NT in these enveryesses and until lave access to the high-reclassificity nechanology that IBM provides for masses critical applications.

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